SHEYKIN, A.Ye., prof., doktor tekhn. nauk

大学学术的中央发展中央企业的企业工作,不是一个企业工作,但是一个企业工作的企业工作,但是一个企业工作,不是一个企业工作,不是一个企业工作,不是一个企业工作,不

Special cements for hydraulic engineering concrete. Trudy MITT no.191:85-109 '64.

Strength of cement stone during prolonged heating at a temperature of 155°C. Ibid.:110-118

Charge of particles of cement-in aqueous suspensions. Ibid.: (MIRA 18:6)

SHEYKIN, A.Ye., doktor tekhn. nauk, prof.; YAKUB, T.Yu., inzh.

Physicochemical nature of the expansion of ncnshrinking and expanding cements during hardening. Trudy MIIT no.191:5-62 expanding cements during hardening. Trudy MIIT no.18:6)

'64.

是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就

SHEYKIN, A.Ye., prof., doktor tekhn. nauk; OLEYNIKOVA, N.I., kand. tekhn. nauk

Effect of warm moist processing and the fineness of the grinding
of the cement on the structure and characteristics of the cement
of the cement on the structure and characteristics of the cement
stone. Trudy MIIT no.191:63-84 164.

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SHEYKIN, A.Ye., doktor tekhn. nauk, prof.

[Outline of lectures on individual parts of the course "New materials in industry"] Konspekt lektsii po otdel'nym razdelam kursa "Novye materialy v tekhnike." Moskva, Mosk. in-t inzhenerov zhel-dor. transp., 1963. 90 p.
(MIRA 18:5)

SHEYKIN, G.Yu., kand.tekhn.nauk; SUKHORUCHKIN, I.A., kand.tekhn.nauk

GOEBUNOVA, Ye.N., mladshiy nauchnyy sotrudnik; SURIN, V.A.,

mladshiy nauchnyy sotrudnik

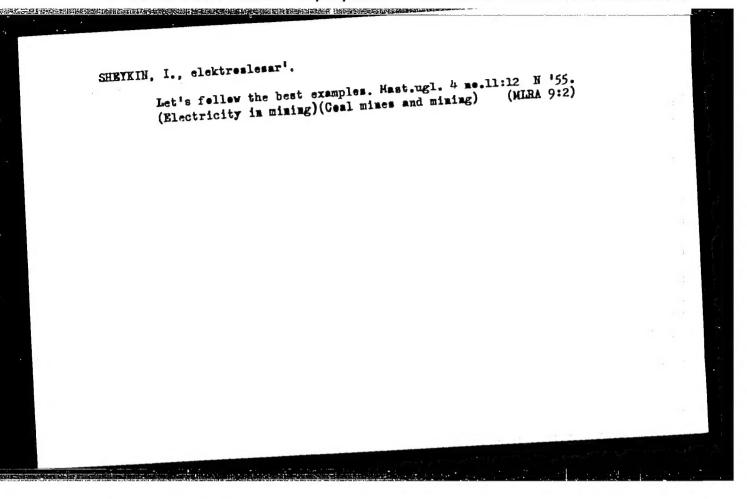
Automatoc distribution of water by closed stationary conduits.

(HIRA 13:7)

Gidr.i mel. 12 no.7:1-12 Jl '60.

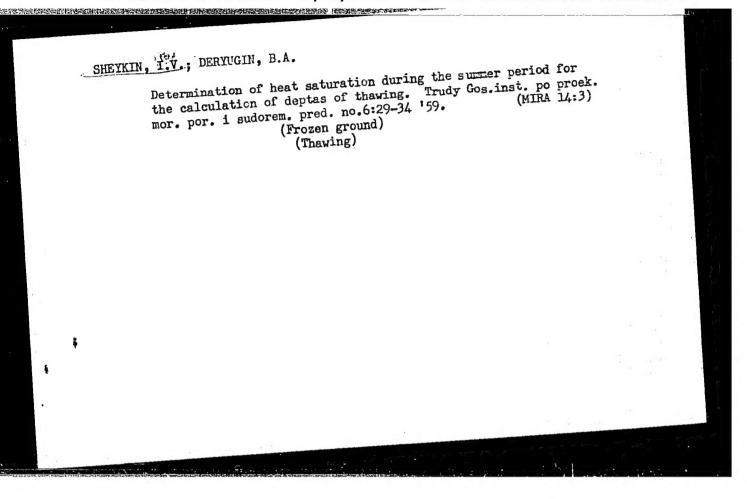
(Irrigation canals and flumes)

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SHEYKIN, I. M. (Dotsent), AL'TMARK, A. M., VORONINA, E. A., and ROZENBLIT, Ye. A.

Analiz Effektivnosti Aktivnykh Metodov Lecheniya Zatyezhnykh Form Shizofrenii

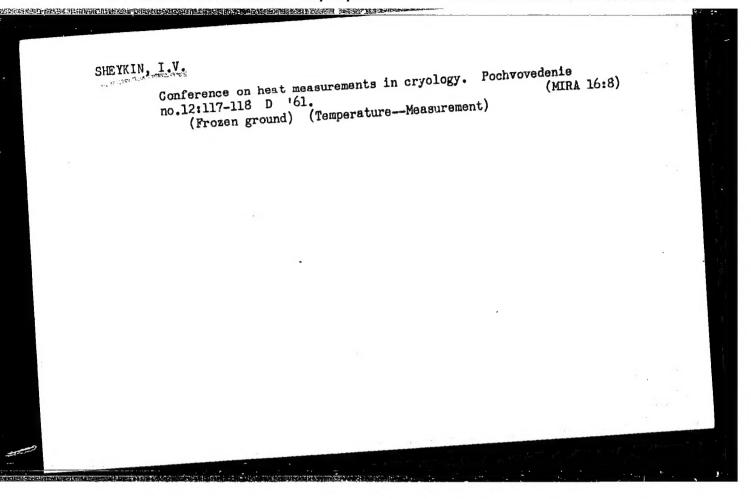
p. 368 V sb Aktual'nyy Problemy Newropatologii i Psikhiatrii. Kuybyshav, 1957

Iz Gor'kovskoy Psikhonevrologicheskoy Bol'niysy

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Estimating the probable degree hour sums of air in calculating the seasonal thawing depth of ground. Mat. k osn. uch. o merz. zon. seasonal thawing depth of ground. (MIRA 14:7) zem. kory no.7:150-156 '61. (Frozen ground)



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ACC NR. AT6028813

SOURCE CODE: UR/3222/65/000/008/0129/0134

AUTHOR: Sheykin, I. V. (Engineer); Zaytseva, O. B. (Engineer)

ORG: none

TITLE: Automatic program-controlled wave recorder

SOURCE: Moscow. Gosudarstvennyy proyektno-konstruktorskiy i nauchno-issledovatelskiy institut morskogo transporta. Trudy, no. 8(14), 1965. Volnovyye issledovaniya; inzhenernyye izyskaniya (Wave studies; engineering research), 129-134

TOPIC TAGS: measuring instrument, liquid level instrument, hydraulic engineering, ocean dynamics, automatic wave recorder, ocean wave height, oceanographic instrument

ABSTRACT: The article describes an automatic program-controlled wave recorder used in conjunction with an electric-contact wave staff. The wave recorder system described below was designed and tested by the Laboratory for Instruments and Methods for Studying Hydraulic-Engineering Structures of the State Planning, Design and Scientific Research Institute for Marine Transportation of the Ministry of the Merchant Marine. The recorder and power supply are sealed in a 600 x 460 x 440-mm steel box, which is placed on the bottom near the base of the staff and connected to it by a 5-strand RShM cable. The recorder is activated only when the waves reach or exceed a preset height determined by movable contacts on the staff. The recorder is equipped with an expended-tape indicator mounted above water on the wave staff. The operating principles and components are discussed in detail, and a Card

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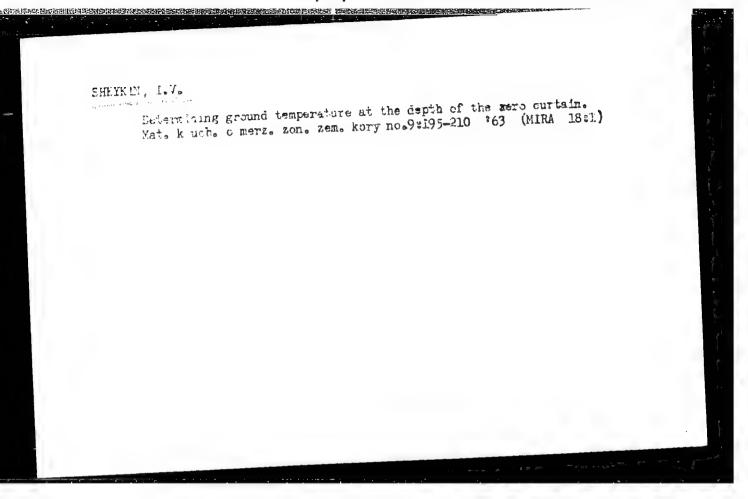
ACC NR: AT6028813

circuit diagram of the recorder system is given. When a wave actuates the triggering contact, the recorder switches on for 10 min and then shuts off for 2 hr. If, after 2 hr, no waves of the necessary height are detected, the recorder switches on for 5 sec and makes a special mark on the photosensitive oscillograph tape. The unit is powered by a 29-GRMTs-13, 14.5-v, dry-cell battery. The recorder housing is made of opaque, 6-mm-thick textolite plate. The wave staff used in the tests was a poly(vinyl chloride) tube with 2-cm-wide copper rings spaced 10-cm apart. In the tests, it was found that water film on the staff in the wave trough resulted in a thick trace on the tape. To overcome this, the use of an improved type of contact is recommended. The improved contact consists basically of 2 vertically positioned brass cylinders, one within the other and insulated from each other at the top. Two sets of holes at different heights in the outer cylinder allow water to enter (through the lower holes) the space between the cylinders and thus close the circuit. Most of the air in the cavity between the cylinders is forced out of the upper holes; however, some air is trapped above the upper holes thus preventing water from forming a film across the insulation between the tops of the cylinders. The tape capacity of the recorder is sufficient for recording twelve 10-min periods at a tape speed of 1.5 mm/sec. The electric power from the battery is sufficient for recording sixteen 15-m-long tape reels. Orig. art. has: 2 figures and 1 table. [WA-NO4]

SUB CODE: 08/ SUBM DATE: none/ ORIG REF: 006/ OTH REF: 002/

Card 2/2

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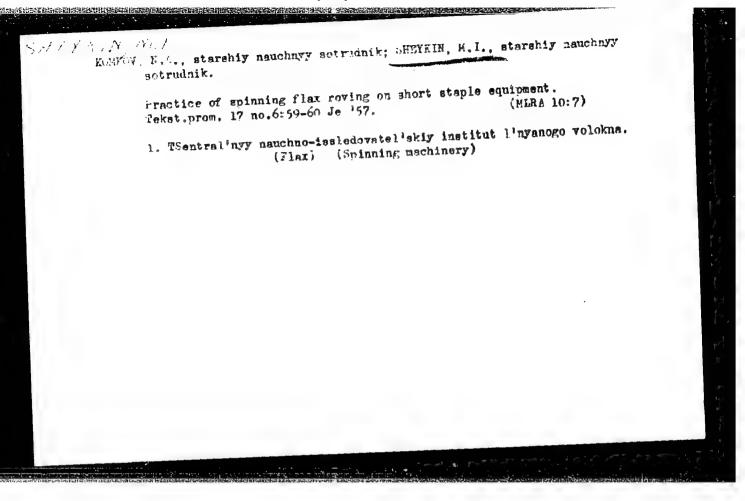
PORKHAYEV, G.V., kand.tekhn.nauk; FEDOROVICH, D.I.; SHEYKIN, I.V.;

DUKHIN, I.ie.; SHOHELUROV, V.K.; SHUR, Yu.I.; FEL DMAN, G.M.;

FILIPFOVSKIY, S.M.;

[Thermal physics of freezing and thawing soils] Teplofizika promerzaiushchikh i protaivaiushchikh gruntov. Moskva, Nauka, 1964. 195 p. (MIRA 17:8)

1. Moscow. Institut merzlotovedeniya.



APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001549320018-8"

SHEYKIN, M.I., kand.tekhn.nauk; BARANOVA, Ye.P.

Sheykin, M.I., kand.tekhn.nauk; BARANOVA, Ye.P.

Spinning flax combines. Tekst.prom. 17 no.12:19-22 D (MIRA 11:1)

(Flax) (Combing machines)

"APPROVED FOR RELEASE: 08/09/2001 CI

CIA-RDP86-00513R001549320018-8

SOURCE CODE: UR/2865/65/004/000/0308/0315 ACC NR: AT6003864 AUTHOR: Bogina, I. D.; Rokotova, N. A.; Rogovenko, Ye. S.; Sheykin, R. L. ORG: none TITIE: Effect of partial limitation of motor activities on basic physiological processes in monkeys SOURCE: AN SSSR. Otdeleniye biologicheskikh nauk. Problemy kosmicheskoy biologii, v. 4, 1965, 308-315 TOPIC TAGS: respiration, brain, animal physiology, experiment animal, space flight simulation, space physiology, weightlessness, physiologic parameter ABSTRACT: Experiments with partial restraint of monkeys have been performed during the last two years because under weightless conditions partial restraint of humans and animals has become the standard form of existence during spaceflight. In the authors' laboratories of a restraint system designed by Sheykin, which consists of a restraining collar, a belt, and either a seat (for the macaque monkey) or a foot rest (for the capuchin monkeys), was used. Card 1/4

L 31313-66 ACC NR: AT6003864

The first series of experiments was performed on four monkeys for the purpose of determining the effects of prolonged, partial restraint of motor activity on the circadian rhythm of behavior, on the appetite, and the orienting reflex. The monkeys showed an insignificant diminution in the duration of sleep and a depression of the orienting reflex only during the first two to four days after the beginning of the experiment. Their appetite remained good during the entire period of restraint (10 days to 4 months). Daily medical examinations failed to reveal any pathological results of prolonged restraint. After the monkeys were freed from restraint they experienced a certain difficulty in walking. When sitting on a shelf they tried to assume the pose in which they had been restrained. After prolonged restraint (4 months) there was a certain loss of spatial orientation, which manifested itself in the inability of the monkeys to estimate distances properly when jumping. However, all these consequences of restraint disappeared after 2-3 hours. Tests showed that there was no change in sexual drives as a result of prolonged restraint.

The purpose of the second series of experiments was to study diurnal variations in respiratory rhythm, cardiac activity, and bioelectrical activity of the brain of restrained monkeys. Experiments were performed on two capuchin and one macaque monkey. Special features were added to

Card 2/4

ACC NR. AT6003864

Sheykin's restraint system for recording respiration, motor activity, EKG, and EEG. Data from the experiments indicated that changes in the frequency of respiration, in general, were related to motor activities of the monkeys. Respiration in monkeys fluctuated between 32 and 47 cycles per min. Frequency of respiration tended to diminish during the night hours when the monkeys slept. Data obtained two weeks after the beginning of the experiment did not vary much from results obtained during the first three days. Pulse frequency in the macaque monkey ranged from 120 to 160 cps, and in the capuchin from 200 to 250 cps. External stimulation (a rhythmic flashing light) caused the pulse to rise somewhat; in the macaques, for example, it went up to 200 cps. During the course of the experiment the pulse rate tended to remain steady. Restrained macaque monkeys at rest tended to exhibit an alpha-like rhythm with a frequency of 8-12 cps and an average amplitude of 90-95 Light stimulation of the eyes caused a distinct inhibition of this rhythm. Capuchin monkeys show a characteristic data-like rhythm with a frequency of 25-35 cps and an average amplitude of 70 ". The bioelectrical activity of the brain of the monkeys did not show any variations during the period of their restraint. The data obtained in these experiments indicate that under conditions of partial restraint, the respiration, heart beat, and bioelectrical activity of the brain remain within normal limits for the duration of the period of restraint. Λ comparison of the results of these experiments with those found in the literature

Card_3/4

dicates	that pr	olonged rest	raint has	certain ac	vantages logical	over comp indices ob	aratively sho tained during tems could be	o neod
rm restr	raint. restrai	The relative int indicates	that and	mals in li	nted-res	straint sys 3 figure	tems could be	ss: 4091-F7
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YAKUBENKO, Z.K., pladshiy nauchnyy sotrudnik; BARANOVA, Ye.P., mladshiy nauchnyy sotrudnik; Prinimali uchastiye: SHEYKIN, M.I., kand. tekhn.nauk; GORDON, N.B., kand.tekhn.nauk; TARASOV, S.V., kand.tekhn.nauk

Manufacture of nonwoven packing materials from short No.3 flax fibers with the gluing method. Nauch.-issl.trudy TSNIILV 17: 153-162 '62. (MIRA 16:10)

S/865/62/002/000/042/042 D405/D301

AUTHORS:

Rokotova, N.A., Bogina, I.D., Bolotina, C.P., Kucherenko, T.M., Rogovenko, Ye.S. and Sheykin, R.L.

TITLE:

Effect of prolonged limitation of motor activity on

vital functions in monkeys

SOURCE:

Problemy kosmicheskoy biologii. v. 2. Ed. by N. Sisalayan and V. Yazdovskiy. Moscow, Izd-vo AN SSSR, 1962,

417-427

以1990年5月1日日日本会会区内1990年5月1日 1990年1日 19

The experiments were conducted on four monkeys (of TEXT: three different types). The first experimental series lasted for 10 days and the second for 3 months. The experiments were conducted in two different models of fixators: one designed by Lilly and Mason, and the second by R.L. Sheykin. The pulse and respiration rates were determined, as well as the weight of the monkeys prior to, and after the experiments. It was found that prolonged limitation of motor activity has no harmful effect on the physiological functions of the monkeys, their behavior and the state of their ner-

Card 1/2

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001549320018-8" Effect of prolonged limitation ... S/865/62/002/000/042/042
D405/D301

也是不是我们的是一个人,这一个人的人,我们就是我们的人,我们就是我们的人,我们就是我们的人,你们也没有一个人,你们也会会会,我们就是我们的人,你们也会会会会会

vous system. During the first 2-4 days of restricted motion some (insignificant) changes in sleeping time and a depression in the orienting reflex were observed. These effects did not last long and after 3-5 days already the functions of the animals returned to normal. Monkeys, kept in a fixator, can serve as valuable objects for further investigations. The amount of food consumed by the animals dropped by 26-50%, whereas the composition of the diet remained practically unchanged. The weight of the monkeys increased sharply (by about 50%) during a fixation period of 3½ months. The pulse and respiration rates were not appreciably affected. The hair and skin were in a good state. The apparatus developed by Sheykin proved to be more advantageous than that of Lilly and Mason. There are 5 figures and 4 tables. The most important English-language references read as follows: Lilly J.C.F. Appl. Physiol., 12, 1 1958 and Mason J.W.F. Appl. Physiol. 12, 1, 1958.

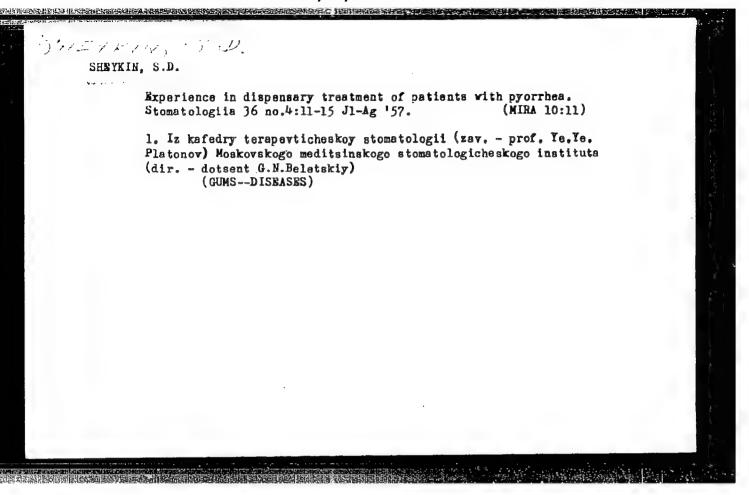
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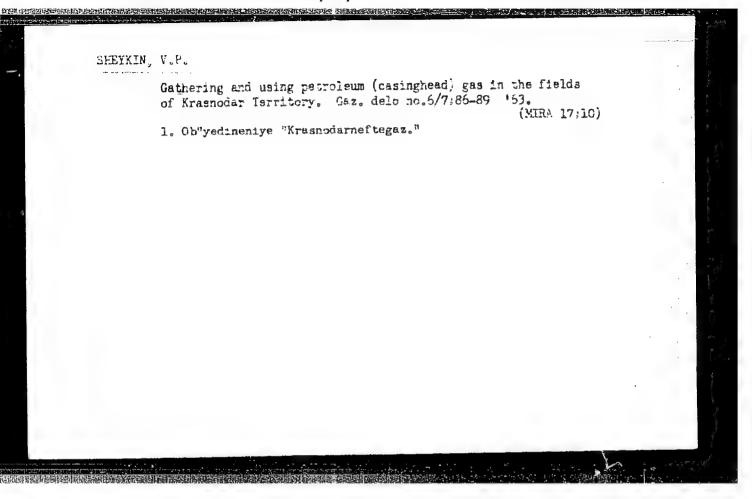
ROKOTOVA, N.A.; BOGINA, I.D.; BOLOTINA, O.P.; KUCHERENKO, T.M.; ROGOVENKO, Ye.S.; SHEYKIN, R.L.

Effect of prolonged limitations of the motor activity on vital activities in monkeys. Probl.kosm.biol. 2:417-427 '62. (MIRA 16:4)

(SPACE MEDICINE)

Effect of partial limitation of motor activity on basic physiological processes in monkeys. Probl. kosm. biol. 4:308-315 '65. (MIRA 18:9)





BLOKH, S.A.; MAYEVSKIY, Ye.R.; SHEYKINA, K.A.

Investigating the operation of kilns for firing grog floater bars.

Trudy Inst. isp. gaza AN URSR no.5:127-134 '58. (MIRA 11:12)

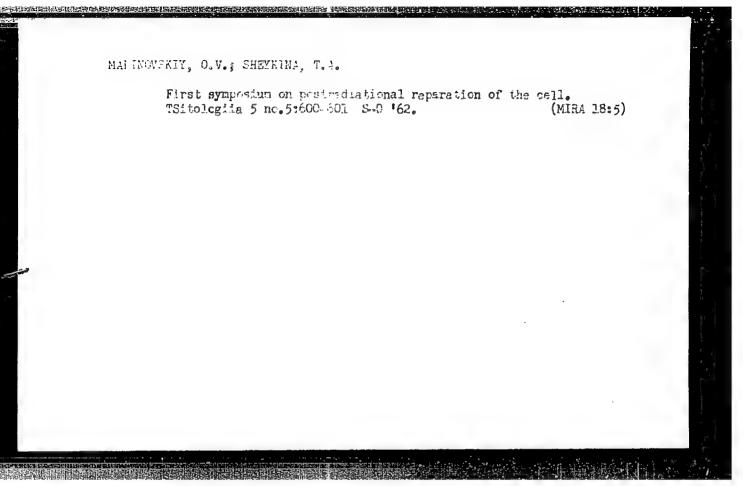
(Refractory materials) (Kilns)

KISLYAKOV, V.A.; SHEYKINA, R.L.

Method of studying the effect of the vestibular apparatus upon the higher nervous function. Fiziol.zhur. 39 no.4:436-438 J1-Ag '53. (MLRA 6:8)

1. Laboratoriya interotseptivnykh uslovnykh refleksov Instituta fiziologii imeni I.P.Pavlova Akademii nauk SSSR. (Nervous system)

SHEYKINA, T. A., Cand Biol Sci -- (diss) "Dynamics of conditioned-reflex activity of patients with increased tonus of the skeletal musculature in their treatment with currer-like preparations (elatine, mellictine, and cobanine)." Leningrad, 1960. 14 pp; (Academy of Sciences USSR, Inst of Physiology im T. P. Pavlov); 250 copies; price not given; (KL,18-60, 150)



SERYAKOV, N.I.; SHEYKINA, T.S.; PETROV, V.V.; IDBRIL', Z.Ya.; SHESTERIKOV, V.G.; PRONIN, V.M.; LYUBSKIY, G.S.; ISAKOV, I.K.; VOLODARSKAYA, V.Ye., red.

[Automated power supply guarantee systems for telecommunication apparatus] Avtomatizirovannye ustroistva garantirovannogo pitaniia apparatury sviazi; informatsionnyi sbornik. Moskva, Izd-vo "Sviaz'," 1964. 132 p. (MIRA 17:6)

ZARYVAYSKAYA, Kh. [Zaryvais'ka, Kh.], kand.med.nauk; GOYEVSKAYA, V. [Haievs'ka, V.], vrach.; SHEYKINA, Ye., vrach.; VISHNEVA, P., vrach

Results of hygiene tests of hot-air heating systems with natural stimulation. Bud.mat.i konstr. no.5:61-62 S-0 '62. (MIRA 15:11) (Hot-air heating)

SHEYKMAN, M.B. (Moskva).

Clinical picture and therapy of primary aldosteronism.
Klin.med. 36 no.10:46-54 0 158 (MIRA 11:11)

l. Iz kafedry endokrinologii (zav. - zaslyzhennyy deyatel'
nauki prof. N.A. Shereshevskiy) Tsentral'nogo instituta
usovershenstvovaniya vrachey (dir. prof. V.P. Lebedeva) na
baze Bol'nitsy imeni Botkina (glavnyy vrach - prof. A.N. Shabanov).

(ALDOSTERONE,
aldosteronism, primary, clin. picture & ther. (Rus))

SHEYKMAN, M.B.

Changes in blood proteins, lipoproteins, and glucoproteins in patients with diabetes mellitus. Elin.med. 38 no.7:36-44 160.

(BLOOD PROTEINS) (DIABETES)

SHEYKMAN, M.B. (Moskva)

Study of proteins, lipoproteins, and glycoproteins of the blood serum in diabetes mellitus. Vrach. delo no.8:129 Ag '60. (MIRA 13:9)

1. Kafedra endokrinologii (zav. - zasl. deyatel¹ nauki, prof. N.A. Shereshevskiy) TSentral¹nogo instituta usovershenstvovaniya vrachey.

(DIABETES)

(BLOOD-EXAMINATION)

(PROTEINS)

(LIPOPROTEINS)

(GLYCOPROTEINS)

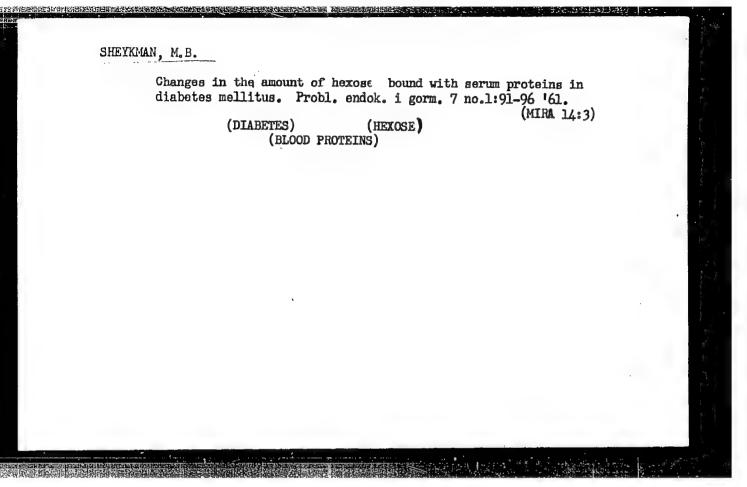
SHEYKMAN, M. B.

Cand Med Sci - (diss) "Change in protein fractions, lipo-proteins and glucoproteins of blood serum in patients with sugar diabetes (without and in the presence of aterosclerosis)." Moscow, 1961. 11 pp; (Academy of Medical Sciences USSR); 300 copies; price not given; (KL, 7-61 sup, 263)

SHEYKMAN, M.B. (Mosk va)

Changes in the proteins, lipoproteids and glucoproteids of blood serum, and the adrenocortical function in the sulfanilamide treatment of diabetes; abstract. M.B. Sheikman. Kaz. med. zhur. no.1:109 Ja-F*61 (MIRA 16:11)

7



SHEYKMAN, M.B.

Method of staining glycoproteids in electrophoregrams (simplified modification). Lab. delo 7 no.5:21-22 My '61. (MIRA 14:5)

1. Kafedra endokrinologii (zav. - zasluzhennyy deyatel' nauki prof.
N.A.Shereshevskiy [deceased]) TSentral'nogo instituta usoverhsenstvovaniya vrachey, Moskva.

(GLYCOPROTEINS) (ELECTROPHORESIS)

(STAINS AND STAINING (MICROSCOPY))

ZAYTSEV, V.F.; MYASNIKOV, I.A.; SHEYKMAN, M.B.

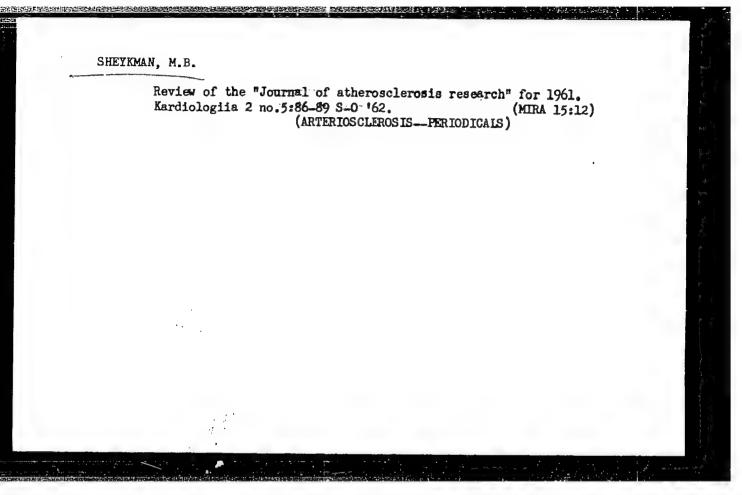
Effect of ascorbic acid on the distribution of 4 Cl4-labeled cholesterol in tissues in experimental atherosclerosis. Kardiologiia 4 no.6:30-34 N-D '64. (MIRA 18:8)

1. Institut terapii (direktor - prof. A.L. Myasnikov) AMN SSSR, Moskva.

FORROVSKIY, A.A.; SHEYKMAN, M.B.; PILENITSYNA, R.A.

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1. Taboratoriya klinicheskoy enzimologil Instituta pitaniya AMN SSSR, Moskva.



VOLOSHCHENKO, M.V.; DZYBAL, L.T.; KLIMENKO, V.M.; SHEYKO, A.A.;

MALAFIY, G.V.

Production of cast iron crankshafts with spheroidal graphite
for 6Ch 12/14 diesels. Lit. proizv. no.8:41-42 Ag '61.

(NIRA 14:7)

(Iron founding) (Cranks and crankshafts)

VOLOSHCHENKO, M.V.; KLIMENKO, V.M.; SHEYKO, A.A.

Making castings of cupola-melted austonitic iron with spheroidal graphite. Nauch. trudy Inst. lit. proizv. AN URSR 11:55-57 '62. (MIRA 15:9)

(Cast iron)

BURDYUG, C.K.; VOLOSHCHENKO, M.V.; KLIMENKO, V.M.; SHEYKO, A.A.

Ultrasonic control of crankshafts made of nodular cast iron.

Nauch. trudy Inst. lit. proizv. AN URSR 11:65-69 '62.

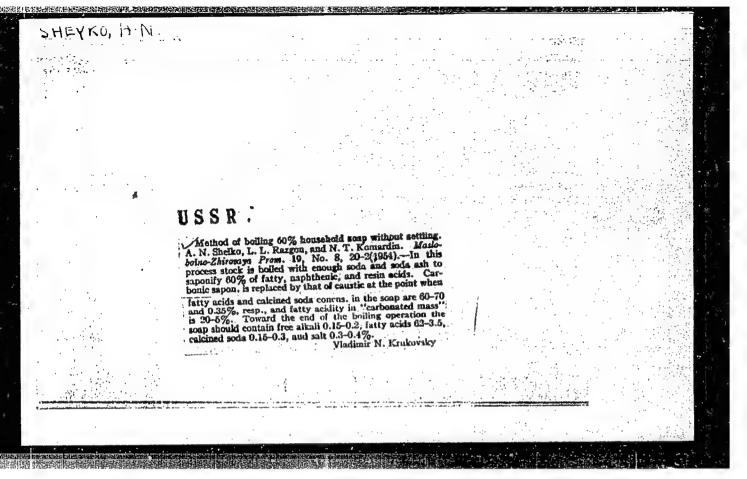
(MIRA 15:9)

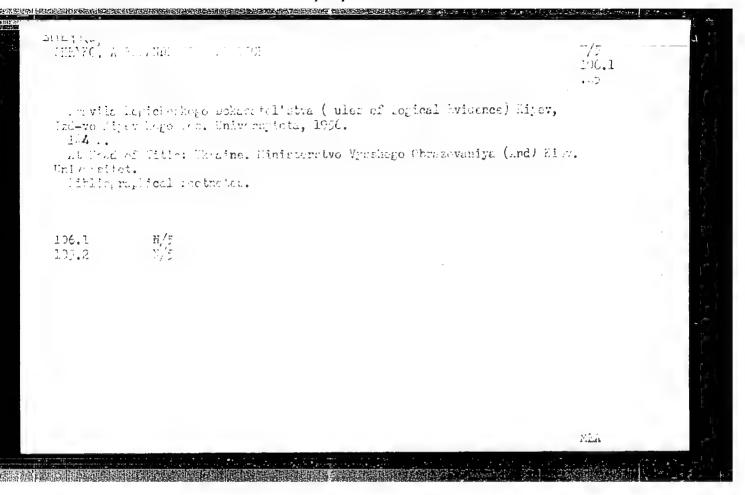
(Cast iron--Testing) (Ultrasonic testing)

1. SHEYKO, A. N. Eng.: RAZGON, L. I.: KO'RRDIN, N. T.

- 2. USSR (600)
- 4. Soap
- 7. Applying Bogod's method in the "Novyi mylovar" Factory. Masl. Zhir. prom. 17, no. 3, 1952.

9. Monthly List of Russian Accessions, Library of Congress, February 1953, Uncl.





SHEYKO, A.N.; P'YASKOVSKIY, B.V. [P'iaskovs'kyi, B.V.]

"Dialectics as logic" by P.V.Kopnin. Reviewed by A.N.Sheiko.
Dop. AN URSR no.2:273-275 '62. (MIRA 15:2)

(Dialectical materialism)

MUSHKALO, L.K.; SHEYKO, D.I.

Condensation of c-aminoselenophenol with unsaturated carboxylic acids. Ukr. khim. zhur. 30 no.4:384-387 164.

(MIRA 17:6)

1. Kiyevskiy gosudarstvennyy universitet imeni Shevchenko.

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001549320018-8"

SHEYKO, A. P.

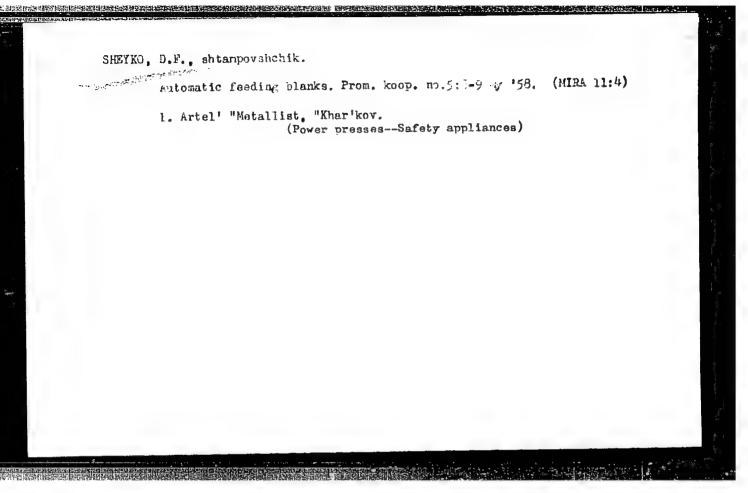
Sheep

Application of milk douches in spasms of the cervix uteri during parturition Veterinariia, 29, no. 2, 1952.

9. Monthly List of Russian Accessions, Library of Congress, April 1953/2 Unclassified.

SHIYKO, B. G.

23376 Pryazha Iz Shterel'nogo Steklovolokna. Legkeya Prom-st', 1949, No. 6, c.21-23
SO: LETOPIS NO. 31, 1949



MUSHKALO, L.E.; SHEYKG, D.I.; LANOVAYA, Ye.1.

Condensat' of c-aminoselenophenol with unsaturated ketones.
Report No 2. Ukr.khim.zhur. 30 no.5:502-503 '64.

1. Kiyevskiy gosudarstvennyy universitet.

(MIRA 18:4)

ZHIKHAREVICH, A.S.; KARAULOV, A.G.; PANICH, B.I.; SHEYKO, I.I.; POLYAKOV, V.F.; KHALEMSKIY, S.F.

Replacement of cast steel plugs used in the top pouring of steel by ceramic graphite-bearing inserts. Metallurg 6 no.11:18=19 N '61. (Steel ingots)

ANTONOV, G. I., inzh.; SHEYKO, I. I., inzh.; KHALEMSKIY, S. F., inzh.; KAL'NOY, Ye. L., inzh.

Using 50 mm.facing bricks in open-hearth furnaces in foundries. Mashimostroenie no.5:42-43 S-0 162. (MIRA 16:1)

1. Ukrainskiy institut ogneuporov i Zavod im. Malysheva.

(Open hearth furnaces—Equipment and supplies)

L 00891-67 EWT(m)/T/EWP(t)/ETI IJP(c) JD/JW/JG
ACC NR: AP6021617 SOURCE CODE: UR/0021/66/000/006/0782/0784

AUTHOR; Sheyko, I. M. - Sheyko, I. N.; Bukhalova, H. O. - Bukhalova, G. A.; Mal'-

tsev, V. T.

ORG: Institute of General and Inorganic Chemistry, AN URSR (Instytut zahal'noyi ta & neorhanichnoyi khimiyi AN URSR)

TITLE: The KF-HfF4 binary system

SOURCE: AN UKrRSR. Dopovidi, no. 6, 1966, 782-784

TOPIC TAGS: hafnium compound, fluoride, thermographic analysis, phase composition ABSTRACT: The authors study the KF-HfF4 system at 400-1000°C with a hafnium fluoride concentration of up to 55 mol.% by the visual-polythermal method and up to 35 mol.% by the thermographic method on M. S. Kurnakov's pyrometer. Heat effects which interfere with the study are encountered when hafnium fluoride concentration exceeds 55%. The visual-polythermal, thermographic and x-ray phase methods show that two congruently melting compounds, K3HfF7 and KHfF6, and one incongruently melting compound, K2HfF6, are formed during crystallization from liquidus in this binary system where HfF4 concentration is less than 50 mol.%, while the compound K4HfF8 is formed in the solid phase. The article was presented for publication by Academician Yu. K. Delimars'kyy. Orig. art. has: 2 figures.

SUB CODE: 20/ SUBM DATE: 19Jun65/ ORIG REF: 004

Card 1/1 afs

L 45770-66 EWT(m)/EMP(t)/ETI IJP(c) JD/JG

ACC NR: AP6026299

SOURCE CODE: UR/0021/66/000/007/0917/0919

AUTHOR: Sheyko, I, M. -- Sheyko, I. N.; Bukhalova, H. O. -- Bukhalova, G. A.; Mal'tsev, V. T.

ORG: Institute of General and Inorganic Chemistry AN URSR (Instytut Zahal'noyi ta neorhanichnoyi khimiyi AN URSR)

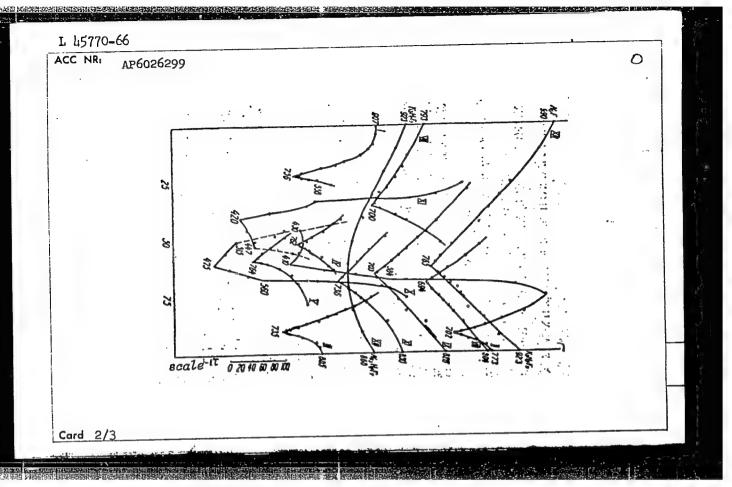
TITLE: NaF-KF-HfF ternary system

SOURCE: AN UkrRSR. Dopovidi, no. 7, 1966, 917-919

TOPIC TAGS: hafnium compound, sodium compound, potassium compound, fluoride, thermographic analysis, crystallization, eutectic mixture, solid solution, ternary alloy, phase diagram

ABSTRACT: The paper is a continuation of the authors study on the interaction of hafnium fluoride with potassium and sodium fluorides in solution to obtain data for the electrometallurgy of hafnium. The method used for studying, preparation of alloys and apparatus used in this study is described in previous works by the authors. Both the visual polythermic and thermographic methods were used for studying melting in the NaF-KF-HfF_h system. Thirteen internal sections were studied (see figure 1). A figure is given for the projection of the liquidus surface on the phase diagram for

Card 1/3



APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001549320018-8"

L 45770-66 ACC NR: AP6026299

6

the NaF-KF-HfF₁ ternary system. It is shown that surface crystallization is divided into 6 fields by monovariant curves: field 1 I - HfF₁, II - NaHfF₅-KHfF₅ solid solution; III - Na₂HfF₆-K₂HfF₆ solid solution; IV - Na₃HfF₇-K₃HfF₇ solid solution; V - NaF; VI - KF. It is shown that the system has one ternary eutectic point with the composition: 27 mol.% NaF, 65% Kf, 8% HfF₁ with a melting point of 680°C. Visual polythermic and thermographic methods show that the compounds Na₃HfF₇, K₃HfF₇, Na₂HfF₆, K₂HfF₆, KNaHfF₅ and KHfF₅ form a continuous series of solid solutions, thus showing their isomorphism. The article was presented for publication by Academician AN URSR Yu. K. Delimars'kyy. Orig. art. has: 2 figures.

SUB CODE: 07, 20/ SUBM DATE: 19Jun65/ ORIG REF: 006

Card 3/3

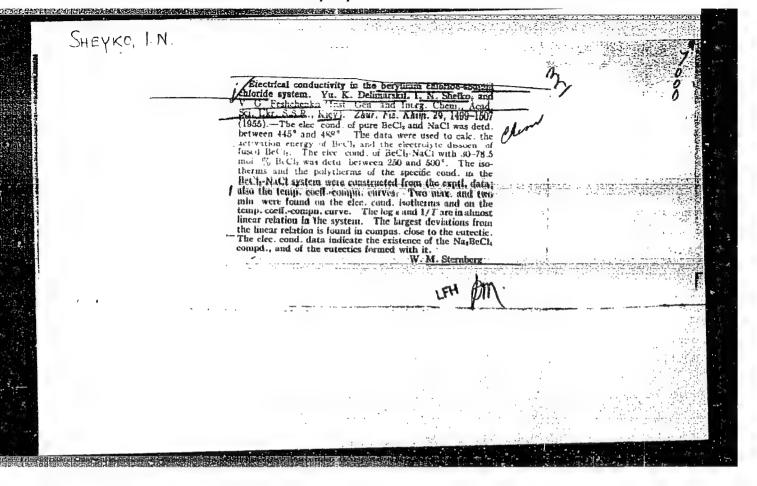
USSR/Chemistry - Electrolytic Deposition Apr 51

"Determination of Individual Electrode Potentials in Fused Aluminum Chloride-Sodium Chloride as Solvent," Yu. K. Delimarskiy, L. S. Herenblyum, I. M. Sheyko, Inst Gen and Inorg Chem, Acad Sci Ukrainian SSR, Hiev

"Zhur Fiz Khim" Vol XXV, No 4, pp 398-403

Examd decompn potentials, Polarization eaf, sep cathode and anode potentials in respect to Pt ref electrode of chlorides of Mi, Co, Ti, Mn, Zn, Cd, Sn, Pb, Cu, Ag, Sb, Bi in fused AlCl3-NaCl electrolyte at 3CO-5COOC. Noted 2 electrode potentials for Cd, Sn; linked 2d to cathodic process. Discusses different effect of temp on Ni, Co from that on other metals.

180721



SHEYKO, I.N.; DELIMARSKIY, Yu.K.

Investigating the decomposition potentials of the system BeCl—NaCl with regard to the correlation of components in the fusion. Ukr.khim.zhur. 23 no.6:713-720 '57. (MIRA 11:1)

1.Institut obshchey i neorganicheskoy khimii AN USSR.
(Beryllium chloride) (Salt)

S/073/60/026/003/011/011/XX B023/B060

AUTHORS: Sheyko, I. N. and Feshchenko, V. G.

TITLE: On the Occasion of N. S. Kavetskiy's Review of the

Article "Study of the Decomposition Voltage of the

K2ZrF6 - NaCl - KCl System"

PERIODICAL: Ukrainskiy khimicheskiy zhurnal, 1960, Vol. 26, No. 3,

pp. 394-395

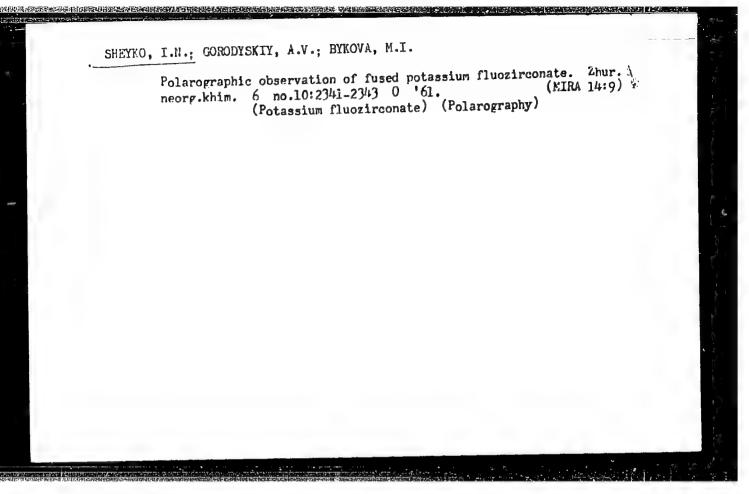
TEXT: N. S. Kavetskiy states without producing any experimental or theoretical proof that the diaphragm provided with an opening, used by the authors in their investigation (Ref. 1), functions as a bipolar electrode. He bases on this unjustified statement to declare that the method applied by the authors is wrong. It is a known fact, so the authors go on, that a plate or a net or a substance exhibiting electrical conductivity, may function also as a diaphragm, and not only as a bipolar electrode. This depends on the construction of the electrolytic cell and on its working conditions. This ability has been widely exploited in numerous electrolytic cells of industrial and laboratory types (Refs. 4-6). Graphite diaphragms with an opening of 1-2 mm in diameter have been applied Card 1/3

On the Occasion of N. S. Kavetskiy's Review of the Article "Study of the Decomposition Voltage of the K₂ZrF₆ - NaCl - KCl System"

S/073/60/026/003/011/011/XX B023/B060

the value 1.25 v (which fits the data from literature per Ref. 12) contradicts Kavetskiy's statement concerning the additional polarization, said to have taken place in the investigation (Ref. 1). Consequently, all his objections concerning the interpretation of the J-V curves are annulled. Kavetskiy's remark stating the impossibility of studying the electrode polarization in the precipitation of zirconium with the aid of a zirconium reference electrode is based on a misunderstanding. This generally applied method of investigating the electrode polarization and the difference among the potentials between two equal electrodes is explained by concentration polarization and the partial irreversibility of the electrode processes. A paper by V. S. Lyashchenko (Ref. 15) is mentioned. There are 1 table and 15 references: 12 Soviet, 2 US, and 1 Italian.

Card 3/3



26279 \$/073/61/027/004/003/004 B127/B203

5 2200

AUTHORS: Sheyko, I. N., Chernov, R. V., and Kikhno, V. S.

TITLE:

Melting diagrams of some salt systems containing potassium

fluozirconate. Communication I

PERIODICAL:

Ukrainskiy khimicheskiy zhurnal, v. 27, no. 4, 1961, 469-473

TEXT: For obtaining metallic zirconium, the electrolysis of salt melts is used; the metling diagrams of these salts were studied by the authors. Primarily, KF-K₂ZrF₆; KCl-K₂ZrF₆; KCl-K₃ZrF₇; NaCl-K₂ZrF₆; KCl-NaCl-K₃ZrF₇. The studies were conducted by the visual-polythermic method. Arrangement: A platinum pot placed in quartz was arranged in an electric furnace with a Pt-Pt-Rh thermocouple in argon atmosphere; results are given in Figs. 1 - 5. All systems melt congruently; the systems KCl-K₃ZrF₇ and KCl-NaCl-K₃ZrF₇ show a simple eutectic; K₂ZrF₆, however, melts incongruently, and the salt K₃ZrF₇ first crystallizes out of its melt. There are 5 figures and 6 references: 4 Soviet and 2 non-Soviet. Card 1/7

26279 S/073/61/027/004/003/004 B127/B203

Melting diagrams of some salt systems ...

The two references to English-language publications read as follows:
Ref. 3: M. Steinberg, M. Sibert, E. Wainer, J. Electrochem. Soc., 101,
63 (1954); 103, 137 (1955); Ref. 5: C. I. Barton, W. R. Crimes,
H. Insley, R. E. Moore, R. E. Throma, J. physic. chem., 62, 665 (1958).

ASSOCIATION: Institut obshchey i neorganicheskoy khimii AN USSR (Institute of General and Inorganic Chemistry AS UkrSSR)

SUBMITTED: April 29, 1960

Fig. 1. System KF-K2ZrF6

Fig. 2. System KCl-K2ZrF6

Fig. 3. System KC1-K3ZrF7

Fig. 4. System NaCl-K2ZrF6

Fig. 5. System KCl-NaCl-K3ZrF7

Card 2/7

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001549320018-8"

SHEYKO, I.N.; FESHCHENKO, V.G. [Feshchenko, V.H.]

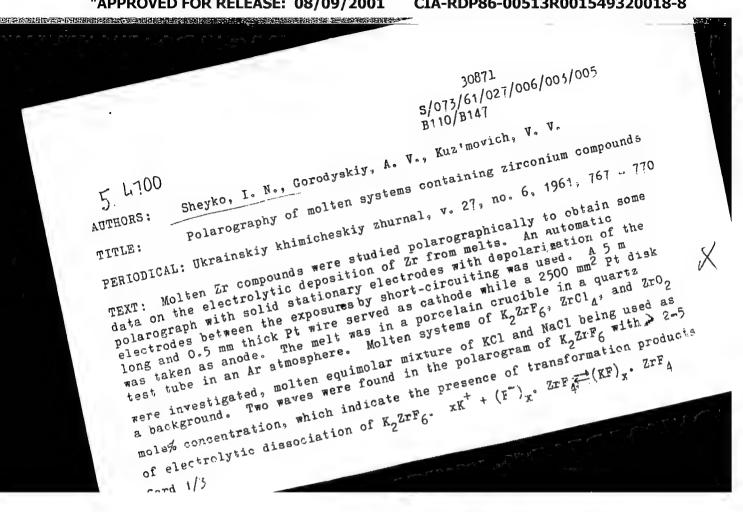
Determination of the decomposition potentials of fused salts in graphite cells. Ukr. khim. zhur. 27 no.4:473-478 '61.

(MIRA 14:7)

1. Institut obshchey i neorganicheskoy khimii AN USSR.

(Salts) (Electromotive force)

CIA-RDP86-00513R001549320018-8 "APPROVED FOR RELEASE: 08/09/2001



APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001549320018-8"

30871 s/073/61/027/006/003/005 B110/B147

Polarography of molten systems...

 $(KF)_x \cdot ZrF_y$ + (4-y)F, where (y = 0 + 4). Small amounts of a transformed form (TF) of $K_2 ZrF_6$ cause the occurrence of waves in the polarograms of pure K2ZrF6 and react on the electrode at lower voltages. Discharge of TF can only be effected by low current densities. An additional increase of voltage causes separation of alkali metal or Zr. or reduction of the original form (OF) of K2ZrF6 to Zr metal. It was possible to observe OF waves on a background of alkali metal when polarographing dilute K2ZrF6 melts (0.1%). Presumably, the maxima of the two waves of the OF polarograms are caused by variation of the active electrode surface. Since both OF waves have the same height, reduction to Zr metal probably takes place according to "4-2-0" (two successive processes) or according to "4-2, 4-0" (two parallel processes). For the systems KCl-NaCl - ZrCl4, KCl-NaCl-ZrO2, KCl-NaCl-NaF-ZrO2 the electrodic processes were only estimated approximately. As ZrCl possesses a conmiderable waper tension at melting temperature, its 30% solution was used Card 2/3

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001549320018-8"

SHEKA, I.A., otv. red.; DELIMARSKIY, Yu.K., red.; KOZACHEK, N.N., red.; NATANSON, E.M., red.; SHEYKO, I.N., red.; MATVIYCHUK, A.A., tekhn. red.

[Applications of zirconium and its compounds in industry; materials] Primenenie tsirkoniia i ego soedinenii v promyshlennosti; materialy. Kiev, Izd-vo Akad. nauk USSR, 1962. 97 p. (MIRA 15:7)

1. Soveshchaniye pri gosplane GNTK i Akademii nauk USSR, Kiev, 1960. (Zirconium—Industrial applications)

SHEKA, I.A., otv. red.; DELIMARSKIY, Yu.K., red.; KOZACHEK, N.N., red.; NATANSON, E.M., red.; SHEYKO, I.N., red.; MATVIYCHUK, A.A., tekhn. red.

[Materials of the Technological Conference on the Use of Zirconium and its Compounds in Industry] Materialy Nauchnotekhnicheskogo soveshchaniia po primeneniiu tsirkoniia i ego soedinenii v promyshlennosti, Kiev, 1960. Kiev, Izd-vo Akad. nauk USSR, 1962. 97 p. (MIRA 15:4)

l. Nauchno-tekhnicheskoye soveshchaniye po primeneniyu tsirkoniya i yego soyedineniy v promyshlennosti, Kiev, 1960. (Zirconium--Congresses)

43054

5/826/62/000/000/004/007 D408/D307

5.4700

AUTHORS:

Sheyko, I.N., Chernov, R.V. and Kikhno, V.S.

TITLE:

Phase diagram of the chloride-fluoride system

of sodium, potassium, and zirconium

SOURCE:

Fizicheskaya khimiya rasplavlennykh soley i shlakov; trudy Vses. soveshch. po fiz. khimii raspl. soley i shlakov, 22 - 25 noyabrya 1960

g. Moscow, Metallurgizdat, 1962, 72 - 76

The authors investigated the behavior of molten K2ZrF6 on cooling and the phase diagrams of the systems K2ZrF6--KC1, K2ZrF6-NaC1, K2ZrF6-KF, K3ZrF7-KC1, K3ZrF7-NaC1, and K3ZrF7--KCl--NaCl by the cooling curve method, in order to make good deficiencies in the literature concerning potential electrolytic production of Zr. K3ZrF7 was prepared by fusing together the appropriate amounts of KF and K2ZrF6 melted incongruently and, when the melt was cooled, K3ZrF7 was the first compound to crystal-

Card 1/3

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Phase diagram ...

Card 2/3

lize out, at 757°C. A thermal effect observed at 591°C probably corresponded to the formation of the compound ZrF4.mKF, where m < 3. The phase diagram of the K2ZrF6-KF system showed the formation of K3ZrF7, melting at 921°C, and a cutectic containing 17 mol.% K2ZrF6, which melted at 766°C. The systems K3ZrF7-KCl, equimolar KCl - NaCl mixture-K3ZrF7, and K3ZrF7-NaCl were also found to be relatively simple, having single cutectics containing 23, 21 and 20 mol.% K3ZrF7 and melting at 660, 630 and 555°C respectively; a solid solution of NaCl in K3ZrF7 was also observed in the K3ZrF7-NaCl system. The K2ZrF6-KCl system was characterized by the presence of the compound K3ZrF6Cl, congruently melting at 730°C, and two cutectics containing 23 and 95 mol.% K2ZrF6 melting at 678 and 562°C respectively. The K2ZrF6-haCl system was the most complex of systems investigated, and interpretation of the obtained results is difficult: The liquids curve consists of three branches, the NaCl and K3ZrF6Cl branches intersecting at 550°C and 28 mol.% K2ZrF6, and K3ZrF6Cl and K3ZrF7 branches intersecting at 630°C and 79 mol.% K2ZrF6. The existence of the K3ZrF6Cl was deduced from experiments

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Phase diagram ...

S/826/62/000/000/004/007 D408/D307

carried out by the method of temperature depression, whereby the addition of KCl to the melt containing 60 - 65 mol.% K2ZrF6 increased the temperature of initial crystallization, and with further addition of KCl the rate of temperature rise slowed down, or the temperature even partially decreased; addition of Na₂ZrF₆ decreased the temperature of initial crystallization. There are 6 figures.

ASSOCIATION:

Institut obshchey i neorganicheskoy khimii AN USSR (Institute of General and Inorganic Chemistry AS UkRSSR)

Card 3/3

S/073/62/028/004/003/004 1017/1217

的基本的扩展性。14、医验量是类似的现在分词。

AUTHORS:

I.N. Sheyko, and V.G. Fechtenko

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TUTIE:

Study on the partial elasticity of Berilium chloride vapors in mixtures with sodium and potassium chlorides

PERIODICAL:

Ukrainskii khimicheskii zhurnal, v.28, no.4, 1962,

473-463

TEXT: The elasticity of the BoCl₂ vapors and the partial elasticity of the systems BeCl₂-NaCl and BeCl₂-KCl are studied. It was found that a linear dependence exists between lg.p and l/T. The partial elasticity of BeCl₂ for the system NaCl-BeCl₂ is higher than that obtained for the system KCl-BeCl₂. This is explained by the higher stability of the complex compound K₂BoCl₄ in comparison to Na₂BeCl₄. The calculated activities and activity coefficient at 400°C for the systems NaCl-BeCl₂ and KCl-BeCl₂, show that the activity of BeCl₂ in the system NaCl-BeCl₂ is higher than its activity in the system KCl-BeCl₂.

Card 1/2

S/073/62/028/004/003/004 1017/1217

Study on the partial elasticity ...

ASSOCIATION:

Institut obchtey y neorganicheskoy khimii AN USSR (Institute for General and Inorganic Chemistry AS Ukr SSR)

SUBMITTED:

June 16, 1961

Card 2/2

SHEYKO, I.N.; FESHCHENKO, V.G.

Partial pressure of beryllium chloride vapors in a mixture with sodium and potassium chlorides. Ukr.khim. zhur. 28 no.4:478-483 (MIRA 15:8)

1. Institut obshchey i neorganicheskoy khimii AN USSR. (Beryllium chloride) (Vapor pressure)

SHEYKO, I.N. Electrolytic separation of powdered zirconium from fused salts. Ukr.khim.zhur. 29 no.1:57-63 '63. (MIRA 16:5)

l. Institut obshchey i neorganicheskoy khimii AN UkrSSR. (Zirconium—Electrometallurgy) (Fused salts)

SHEYKO, I.N.; KIKHNO, V.S.; MEL'NIKOV, V.I.

Melting diagram of the termary system NaF - KF - ZrF₄. Ukr.khim. zhur. 29 no.12:1259-1264 '63. (MIRA 17:2)

1. Institut obshchey i neorganicheskoy khimii AN UkrSSR.

ACCESSION NR: AP4040756

s/0073/64/030/006/0577/0581

AUTHOR: Sheyko, I. N.; Barchuk, V. T.

TITLE: Zirconium dichloride behavior in molten mixtures of alkali-

and alkali earth chlorides

SOURCE: Ukrainskiy khimicheskiy zhurnal, v. 30, no. 6, 1964, 577-581

TOPIC TAGS: zirconium dichloride, zirconium tetrachloride, zirconium dichloride disproportioning, alkali chloride, alkali earth chloride

ABSTRACT: The object of the study was to find the behavior of zirconium dichloride in the following melts: KCl-LiCl, KCl-NaCl, NaCL-CaCl₂, KCl-MgCl₂, NaCl-MgCl₂, NaCl-BaCl₂, NaCl-AlCl₂, KCl-NaCl-ZrCl₂. It was found that up to 400C ZrCl₂ remains unchanged and insoluble. It is present in the melt in the form of a fine suspension. Above 400C, depending on the composition of the melt, it dissociates into ZrCl₂ and Zr metal which remains in suspension together with the unreacted ZrCl₂ at its surface (in a state of equilibrium) while ZrCl₂ dissolves in the melt. This process depends on the nature of the melt, on temperature, and on the duration of the experiment. The quantity of ZrCl₂ suspended in the melt depends

ACCESSION NR: AP4040756

on the temperature and the stability of the Zr metal suspension. All melting tests were made in an argon atmosphere, since Zr powder spontaneously ignites in the air. The conversion of ZrCl₂ into ZrCl₄ is practically completed in the first 30 min. Orig. art. has: 3 figures, 2 tables.

ASSOCIATION: Institut obshchey i neorganicheskoy khimii AN UkrSSR (Institute of General and Inorganic Chemistry AN UkrSSR)

SUBMITTED: 28Dec62

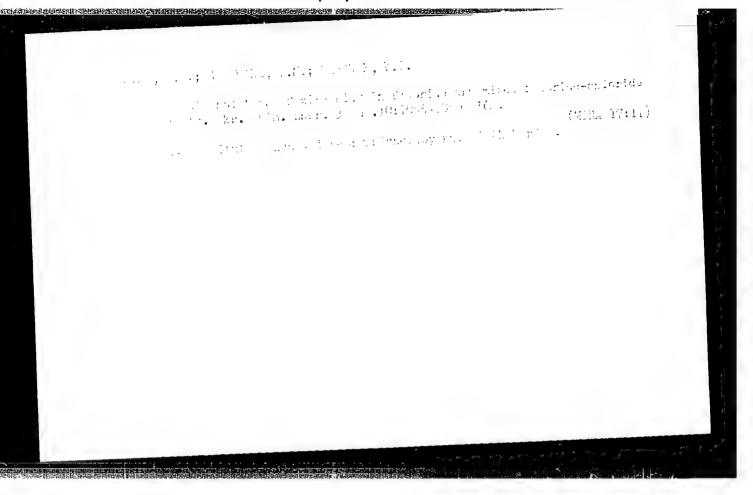
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OTHER: 000.

14/ 54



SHEYKO, I.H.; MEL'NIKOV, V.I.; SUPRUNCHUK, V.I.

Melding diagram of the system Ne N. - KGi - K_277. - Na₂27. Where the system Ne N. - KGi - K_277. - Na₂27. Where the system Ne N. - KGi - K_277. - Na₂27. Where the system Ne N. - KGi - K_277. - Na₂27. When the system Ne N. - K_277. - Na₂27. When the system Ne N. - K_277. - Na₂27. When the system Ne N. - K_277. - Na₂27. When the system Ne N. - K_277. - Na₂27. When the system Ne N. - K_277. - Na₂27. When the system Ne N. - K_277. - Na₂27. When the system Ne N. - K_277. - Na₂27. When the system Ne N. - K_277. - Na₂27. When the system Ne N. - K_277. - Na₂27. When the system Ne N. - K_277. - Na₂27. When the system Ne N. - K_277. - Na₂27. When the system Ne N. - K_277. - Na₂27. When the system Ne N. - K_277. - Na₂27. When the system Ne N. - K_277. - Na₂27. When the system Ne N. - K_277. - Na₂27. When the system Ne N. - K_277. - Na₂27. When the system Ne N. - K_277. - Na₂27. When the system Ne

1. Institut obsnehey i neorganicheskoy khimli Ali UkrSSR.

L 63642-65 ENT(m)/ENP(b)/EMP(t) — ACCESSION NR: AP5017982	-IJP(c) JD UR/0073/65/031/007/0710/0713 1/7 543.7+620.193.43 1/6	
SOURCE: Ukrainskiy khimicheskiy TOPIC TAGS: sodium fluohafnate sium fluoride, fusibility diagr ABSTRACT: The system Na, K F, in dry carbon dioxide. The foliat 762C and 22% Na ₃ F ₃ , and in K ₃ K ₃ HfF ₇ , a continuous series of K ₃ HfF ₇ was observed. The cryst HfF ₃ -7 was found to consist of the continuous of the cryst HfF ₃ -7 was found to consist of the continuous of the cryst	y zhurnal, v. 31, no. 7, 1965, 710-713 a, potassium fluohafnate, sodium fluoride, potasram, fused salt system HfF7 was studied by a visual polythermal method ilowing eutectics were found: in Na ₃ F ₃ - Na ₃ HfF7 at 766C and 55.5% K ₃ F ₃ . In Na ₃ HfF7 solid solutions with a minimum at 815C and 35% tallization surface of the system Na ⁺ , K ⁺ //F ⁻ , three fields of crystallization, those of sodium and continuous solid solutions of sodium and potasand continuous solid solutions of sodium.	一日 一
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SHEYKO, I.N.; SUPRUNCBUK, V.I.; BANGUR, T.A.

Fusicility diagram of the ternary system Nay - Macl = Ne₂2rP_b.

Ukr. khim. zhur. 31 no.9:927-930 'o5.

1. Institut obshohey i neorganicheskoy khimii AN UkrSSR.

SHEYKO, I.N.; DERKS, O.F.; POZDNYAKOV, A.N.

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Density and molar volume of the ternary system. Ukr. khim. zhur. 31 no.10:1055-1060 '65. (MIRA 19:1)

1. Institut obshchey i neorganicheskoy khimii AN UkrSSR. Submitted September 25, 1964.

SHEYKO, I.N.; CHERNOV, R.V.; SUPRUNCHUK, V.I.

Fusibility diagram of the ternary system KF - KCL - K2ZrF6.

Ukr. khim. zhur. 31 no. 11:1143-1147 '65 (MIRA 19:1)

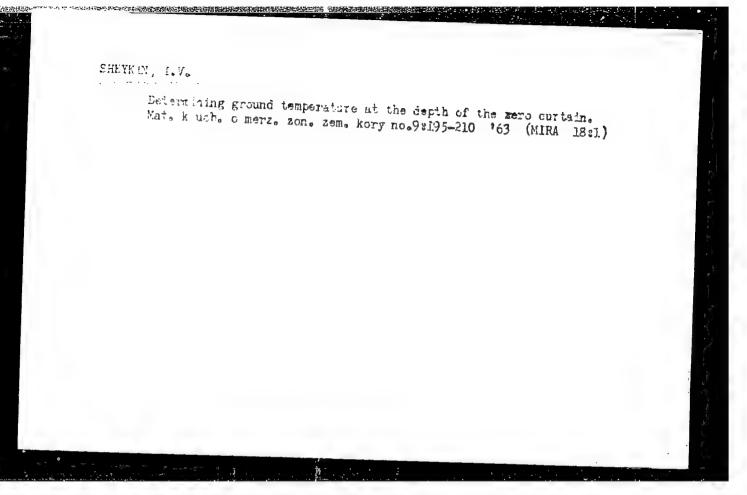
1. Institut obshchey i neorganicheskoy khimii AN UkrSSR.

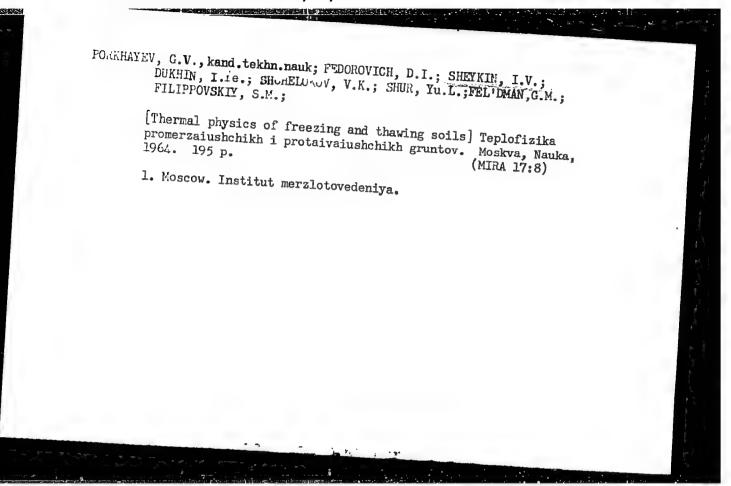
ACC NR: AT6028813

circuit diagram of the recorder system is given. When a wave actuates the triggering contact, the recorder switches on for 10 min and then shuts off for 2 hr. If, after 2 hr, no waves of the necessary height are detected, the recorder switches on for 5 sec and makes a special mark on the photosensitive oscillograph tape. The unit is powered by a 29-GRMTs-13, 14.5-v, dry-cell battery. The recorder housing is made of opaque, 6-mm-thick textolite plate. The wave staff used in the tests was a poly(vinyl chloride) tube with 2-cm-wide copper rings spaced 10-cm apart. In the tests, it was found that water film on the staff in the wave trough resulted in a thick trace on the tape. To overcome this, the use of an improved type of contact is recommended. The improved contact consists basically of 2 vertically positioned brass cylinders, one within the other and insulated from each other at the top. Two sets of holes at different heights in the outer cylinder allow water to enter (through the lower holes) the space between the cylinders and thus close the circuit. Most of the air in the cavity between the cylinders is forced out of the upper holes; however, some air is trapped above the upper holes thus preventing water from forming a film across the insulation between the tops of the cylinders. The tape capacity of the recorder is sufficient for recording twelve 10-min periods at a tape speed of 1.5 mm/sec. The electric power from the battery is sufficient for recording sixteen 15-m-long tape reels. Orig. art. has: 2 figures and 1 table. [WA-NO4]

SUB CODE: 08/ SUBM DATE: none/ ORIG REF: 006/ OTH REF: 002/

Card 2/2

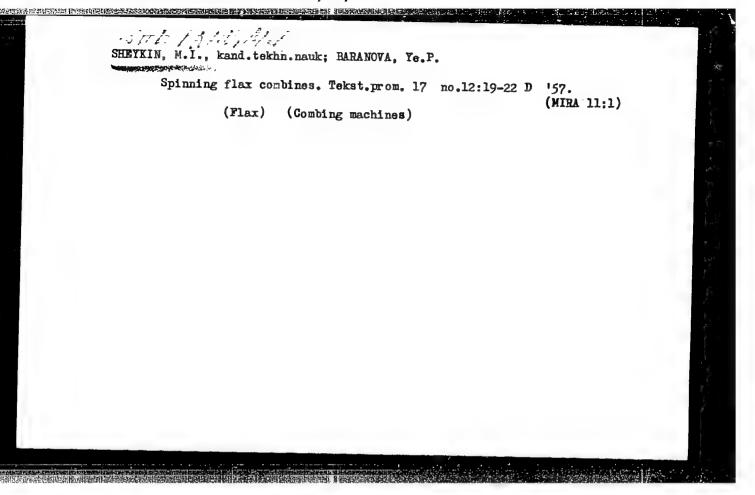




ENGRGY N.C., starshiy nauchnyy sotradnik; DHEYKIN, H.I., starshiy nauchnyy rractice of spinning flat reving on short staple equipment.

Tekst.prom, 17 no.6:59-6n Je 157. (MLRA 10:7)

1. TSentral'nyy nauchno-isaledovatel'skiy institut l'nyanogo volokna. (Flax) (Spinning machinery)



ACC NR: AT6003864

SOURCE CODE: UR/2865/65/004/000/0308/0315

AUTHOR: Bogina, I. D.; Rokotova, N. A.; Rogovenko, Ye. S.; Sheykin, R. L.

使用: 3.500 · 1

APPROVED FOR RELEASE: 08/09/2001

ORG: none

TITLE: Effect of partial limitation of motor activities on basic physiological processes in monkeys

SOURCE: AN SSSR. Otdeleniye biologicheskikh nauk. Problemy kosmicheskoy biologii, v. 4, 1965, 308-315

TOPIC TAGS: respiration, brain, animal physiology, experiment animal, space flight simulation, space physiology, weightlessness, physiologic parameter

ABSTRACT: Experiments with partial restraint of monkeys have been performed during the last two years because under weightless conditions partial restraint of humans and animals has become the standard form of existence during spaceflight. In the authors' laboratories, a restraint system designed by Sheykin, which consists of a restraining collar, a belt, and either a seat (for the macaque monkey) or a foot rest (for the capuchin monkeys), was used.

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ACC NR: AT6003864

The first series of experiments was performed on four monkeys for the purpose of determining the effects of prolonged, partial restraint of motor activity on the circadian rhythm of behavior, on the appetite, and the orienting reflex. The monkeys showed an insignificant diminution in the duration of sleep and a depression of the orienting reflex only during the first two to four days after the beginning of the experiment. Their appetite remained good during the entire period of restraint (10 days to 4 months). Daily medical examinations failed to reveal any pathological results of prolonged restraint. After the monkeys were freed from restraint they experienced a certain difficulty in walking. When sitting on a shelf they tried to assume the pose in which they had been restrained. After prolonged restraint (4 months) there was a certain loss of spatial orientation, which manifested itself in the inability of the monkeys to estimate distances properly when jumping. However, all these consequences of restraint disappeared after 2-3 hours. Tests showed that there was no change in sexual drives as a result of prolonged restraint.

The purpose of the second series of experiments was to study diurnal variations in respiratory rhythm, cardiac activity, and bioelectrical activity of the brain of restrained monkeys. Experiments were performed on two capuchin and one macaque monkey. Special features were added to

Card 2/4

ACC NR: AT6003864

Sheykin's restraint system for recording respiration, motor activity, EKG, and EEG. Data from the experiments indicated that changes in the frequency of respiration, in general, were related to motor activities of the monkeys. Respiration in monkeys fluctuated between 32 and 47 cycles per min. Frequency of respiration tended to diminish during the night hours when the monkeys slept. Data obtained two weeks after the beginning of the experiment did not vary much from results obtained during the first three days. Pulse frequency in the macaque monkey ranged from 120 to 160 cps, and in the capuchin from 200 to 250 cps. External stimulation (a rhythmic flashing light) caused the pulse to rise somewhat; in the macaques, for example, it went up to 200 cps. During the course of the experiment the pulse rate tended to remain steady. Restrained macaque monkeys at rest tended to exhibit an alpha-like rhythm with a frequency of 8-12 cps and an average amplitude of 90-95 Light stimulation of the eyes caused a distinct inhibition of this rhythm. Capuchin monkeys show a characteristic data-like rhythm with a frequency of 25-35 cps and an average amplitude of 70 4. The bioelectrical activity of the brain of the monkeys did not show any variations during the period of their restraint. The data obtained in these experiments indicate that under conditions of partial restraint, the respiration, heart beat, and bioelectrical activity of the brain remain within normal limits for the duration of the period of restraint. A comparison of the results of these experiments with those found in the literature

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